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Product Name :

Computerized ICE Plant Trainer

Product Code :

SLE/MCE/87



Science Lab
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Description :

Computerized ICE Plant Trainer (Product Code: SLE/MCE/87) is a vapour-compression refrigeration trainer used to demonstrate ice making and measure refrigeration performance in refrigeration and air-conditioning laboratories. Engineering colleges and technical institutes use it for its hermetically sealed Kirloskar-make compressor, stainless steel tank and evaporator, and two pressure plus six temperature transmitters. It is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, a laboratory equipment supplier in Ambala, as part of its range of engineering lab equipment in India.

Specifications

Parameter	Detail
Compressor	Hermetically sealed compressor, Kirloskar make
Condenser	Air cooled, compatible with the compressor
Condenser cooling fan	Compatible capacity, with permanently lubricated motor
Expansion device	Capillary tube of compatible capacity
Evaporator	Stainless steel, insulated with ceramic wool/PUF
Tank	Inner tank fabricated from stainless steel
Pressure measurement	Pressure transmitters – 2 nos.
Temperature measurement	Temperature transmitters – 6 nos.
Energy measurement	Energy meter
Safety controls	Overload and over-current protectors for the compressor; time delay circuit
Dimensions	1400 × 800 × 1200 mm (approx.)
Weight	165 kg (approx.)
Power supply options	230 V, 50 Hz, 1 phase or 230 V, 60 Hz, 1 phase
Product code	SLE/MCE/87
Supplied by	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the ICE Plant Trainer Used For?

The trainer runs a complete vapour-compression cycle: the hermetic compressor raises the refrigerant pressure, the air-cooled condenser rejects heat, the capillary tube drops the pressure, and the stainless steel evaporator absorbs heat from the water in the tank until it freezes. Students record the two pressures and six temperatures, plus energy use from the energy meter, to draw the cycle on a pressure–enthalpy chart and work out refrigeration effect and coefficient of performance.

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